Amendments to the Claims

This listing of claims replaces all prior versions of listing of claims, and listing of claims in the application.

Listing of Claims

1-14. (Cancelled)

15. (Currently Amended) A vaccine formulation suitable for mucosal administration comprising:
(a) a mixture of a first vaccine antigen which is Hepatitis B virus surface antigen (HBsAg), and
(b) a second vaccine antigen which is a viral nucleocapsid ~~or a virus-like particle~~; wherein said HBsAg has an adjuvant effect on the second vaccine antigen, and wherein said first and second vaccine antigens are each present from 0.001mg to 1mg.

16. (Previously Presented) The vaccine formulation according to claim 15, wherein the viral nucleocapsid is the nucleocapsid antigen of Hepatitis B virus.

17-20. (Cancelled)

21. (Previously Presented) The vaccine formulation according to claim 15, wherein the vaccine formulation is suitable for nasal administration.

22. (Previously Presented) The vaccine formulation according to claim 15, wherein the vaccine formulation is suitable for use as a therapeutic vaccine against Hepatitis B virus (HBV) infection.

23. (Previously Presented) The vaccine formulation according to claim 15, wherein the vaccine formulation is suitable for use as a preventive vaccine against Hepatitis B virus (HBV) infection.

24-37. (Cancelled)

38. (Currently Amended) A vaccine formulation suitable for mucosal administration, comprising:

(a) a mixture of a first vaccine antigen which is Hepatitis B virus surface antigen (HBsAg), and

(b) a second vaccine antigen and a third vaccine antigen wherein the second or third vaccine antigen is a viral nucleocapsid,

wherein the vaccine antigens are each present from 0.001mg to 1mg, wherein the HBsAg has an adjuvant effect on the second or third vaccine antigen.

39. (Currently Amended) The vaccine formulation according to claim 38, wherein the second vaccine antigen is an antigen of a viral nucleocapsid ~~or a virus-like particle~~.

40. (Cancelled)

41. (Previously Presented) The vaccine formulation according to claim 39, wherein the third vaccine antigen is Hepatitis B virus core antigen (HBcAg).

42. (Previously Presented) A method for administering a vaccine formulation to a mammal for generating an immune response, the method comprising administering mucosally to the mammal a vaccine formulation comprising:

(a) a mixture of a first vaccine antigen which is Hepatitis B virus surface antigen (HBsAg), and

(b) a second vaccine antigen which is a viral nucleocapsid ~~or a virus-like particle~~;

wherein said HBsAg has an adjuvant effect on the second vaccine antigen, and wherein said first and second vaccine antigen are each present from 0.001 mg to 1 mg.